Index of Claims

| Application No. | Applicant(s)   |  |
|-----------------|----------------|--|
| 10/647,916      | TIEMANN ET AL. |  |
| Examiner        | Art Unit       |  |
| Basil Katcheves | 3635           |  |

| √  | Rejected |  |
|----|----------|--|
| 11 | Allowed  |  |

| _ | (Through numeral)<br>Cancelled |  |
|---|--------------------------------|--|
| + | Restricted                     |  |

| N | Non-Elected  |
|---|--------------|
| ī | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

|       |           |            |            |              |          |                 |                 | _         |        |          |          |           |              |          |           |                 |                |              |          | J  |            |             |                       |              |  |                 |          |   |          |
|-------|-----------|------------|------------|--------------|----------|-----------------|-----------------|-----------|--------|----------|----------|-----------|--------------|----------|-----------|-----------------|----------------|--------------|----------|--|------------|-------------|-----------------------|--------------|--|-----------------|----------|---|----------|
| Claim | 4         | Date       |            |              |          |                 | J               | CI        | aim    | Date     |          |           |              |          |           |                 |                | CI           | aim      | Date   |            |             |                       |              |  |                 |          |   |          |
| Final |           | A 20/05    |            |              |          |                 |                 |           |        | Final    | Original |           |              |          |           |                 |                |              |          | Final  | Original   |             |                       |              |  |                 |          |   |          |
| 1     | 7         | <b>v</b> ] | <b>-</b> † | t            | Ħ        | 1-              | H               | +         | 1      |          | 51       | Н         | $\dashv$     | +        | +         | H               |                | +            | ┧Ш       | <b>-</b>   | 101        | <del></del> | +                     | ╁╌           | ╁  | Н               | $\vdash$ | -+  | _        |
| 2     | $\exists$ | ৰ          |            | $\dagger$    | T        |                 | П               |           | 1      |          | 52       | П         |              | $\top$   | $\top$    | H               |                | $\top$       | 1        |  | 102        | $\Box$      | +                     | +            | $\vdash$   | Н               | $\Box$   | $\neg +$  | _        |
| 3     | 7         |            |            | $oxed{\Box}$ |          |                 |                 |           |        |          | 53       |           |              |          |           |                 |                | 1            | ]        |  | 103        |             | 1                     | T            | İ  |                 | П        | $\top$  | _        |
| 4     | _         | Ŋ          |            |              |          |                 |                 |           | ]      |          | 54       |           |              |          |           |                 |                | $oxed{\Box}$ | ]        |  | 104        |             | $ m oxedsymbol{oxed}$ |              |  |                 |          |   |          |
| 5     |           | ◁          | _          | 1_           | <u> </u> |                 | Ш               |           | J      |          | 55       | Ш         | _            | 1        | _         |                 |                |              |          |  | 105        |             | $\perp$               |              | $oxed{oxed}$                                     |                 |          |   |          |
| 6     | _         | Ŋ          |            | _            | ↓_       | $oxed{oxed}$    |                 |           | 4      |          | 56       | Ш         | $\dashv$     | $\perp$  | $\bot$    | $oxed{oxed}$    |                | _            | <b>.</b> |  | 106        |             | $\perp$               | <u> </u>     | 乚  | Ŀ               |          | $\perp$   |          |
| 8     | _         | Н          | +          | -            | ╀        | -               | Н               |           | -      |          | 57       | $\vdash$  | -            | +        | ╀         | Ш               | _ -            | ╄            | 4        |  | 107        | $\vdash$    | +                     | ╄            | ┞  | Ш               | $\dashv$ | -   | _        |
| 9     | _         | ╫          | +          | ╁            | ╁        | $\vdash$        | Н               |           | -      |          | 58<br>59 | $\vdash$  | +            | +        | +         | H               |                | +            | 1        | <u> </u>   | 108<br>109 | $\vdash$    | ╄                     | ╄            | <u> </u>   | H               | $\dashv$ |   | _        |
| 10    | _         | Н          | $\dashv$   | ╁╌           | ╁        | -               | Н               | +         | 1      | -        | 60       | $\vdash$  | -+           | +        | +-        | Н               | _              | +            | ┨        |  | 110        |             | +                     | +-           | ⊢  | Н               | $\dashv$ | +   | _        |
| 11    |           | H          |            | ╁            | ╁╌       | $\vdash$        | $\vdash$        | $\dashv$  | 1      |          | 61       | Н         | $\dashv$     | +        | +         | Н               |                | +            | ┨        |  | 111        | - +-        | ╁                     | ╁┈           | $\vdash$   | $\vdash$        | -        | +   | _        |
| 12    |           | H          | _          | 1            | t        | $I^{-}$         | H               | $\top$    | 1      |          | 62       | $\Box$    | 十            | $\top$   | $\top$    | ┪               | $\vdash\vdash$ | +            | 1        | <del>                                     </del> | 112        | $\vdash$    | +                     | +            | H  | H               | $\dashv$ | $\dashv$  | -        |
| 13    | 3         | $\Gamma$   |            |              |          |                 |                 |           | ]      |          | 63       |           | 丁            | 丁        |           | П               | $\neg$         | 1            | 1        |  | 113        | $\vdash$    | T                     | $\vdash$     | T  | $\square$       | $\dashv$ | $\top$  | _        |
| 14    |           | $\prod$    |            |              |          |                 |                 |           |        |          | 64       | Ŀ         |              |          |           |                 |                |              |          |  | 114        |             | Τ                     |              |  | П               | $\neg$   | $\neg$  | _        |
| 15    |           | Ц          | _          | ┸            | ↓_       | $oxed{oxed}$    |                 |           |        |          | 65       |           |              |          |           |                 |                |              |          |  | 115        |             |                       |              |  |                 |          |   |          |
| 16    |           | 41         |            | ↓_           | <u> </u> | <u> </u>        |                 |           |        |          | 66       | Ш         |              | _        | 丄         |                 |                | 퇶            |          |  | 116        |             |                       |              |  |                 |          |   |          |
| 17    |           | Н          | -          | ╄            | ↓_       | <u> </u>        |                 |           | -      | <u> </u> | 67       | Щ         | $\perp$      | 4        | ↓_        | Ш               |                | ╄            | 4        |  | 117        | $\perp$     | _                     |              | $oxed{oxed}$                                     |                 | _        | ightharpoonup                                     | _        |
| 18    |           | H          | -          | +-           | ₩        |                 |                 |           | -      |          | 68       | $\square$ | -            | +        | ╀         | <b>—</b>        | _              | +            |          |  | 118        | $\perp$     | 4                     | 1            |  | Щ               |          | $\dashv$  | _        |
| 19    |           | H          | +          | ╁            | +        | -               | $\vdash$        | +         | -      | _        | 69<br>70 |           | +            |          | +         | Н               |                | ╀            | ł        |  | 119        |             | +-                    | ⊢            | <u> </u>   | $\vdash$        | -        | +   | _        |
| 21    |           | N          | +          | ╁            | +        | $\vdash$        | $\dashv$        | $-\vdash$ | -      | <u> </u> | 71       | $\vdash$  | +            | +        | +         | Н               |                | +            |          |  | 120<br>121 |             | ╀                     | ╁            | ⊢  | $\vdash$        | $\dashv$ | $\dashv$  | _        |
| 22    |           | 7          |            | ╁            | $\vdash$ | $\vdash$        | $\vdash$        | $\dashv$  | ┨      | -        | 72       | $\vdash$  | -            | -        | ╁         | Н               |                | +            | -        | _  | 122        | -           | ╁                     | ╁            |  | $\vdash$        | $\dashv$ | <del></del>                                       | _        |
| 23    | _         | Ħ          | $\dashv$   | T            | t        |                 | $\vdash$        | _         | 1      |          | 73       | $\vdash$  | $\dashv$     | +        | +         | Н               |                | +            | 1        |  | 123        | -           | ╁                     | ╁            |  |                 | $\dashv$ | $\dashv$  | $\dashv$ |
| 24    |           | Ħ          | $\top$     | $\top$       | T        |                 | $\Box$          | +         | 1      |          | 74       | H         | ┰            | ┪        | +         | Н               | $\dashv$       | +            | 1        |  | 124        |             | ╁                     | $\vdash$     | ┢  | Н               | $\dashv$ | 十   | -        |
| 25    | 5         | $\prod$    |            |              |          |                 |                 |           | 1      |          | 75       | П         | $\neg$       | T        | T         |                 |                | T            |          |  | 125        |             |                       |              |  | П               | $\dashv$ | $\dashv$  | _        |
| 26    |           | <b>7</b> ] |            | oxdot        |          |                 |                 |           |        |          | 76       |           |              |          |           |                 |                |              |          |  | 126        |             | 1                     | Τ            |  | П               | $\neg$   | $\top$  |          |
| 27    |           | N          |            |              |          |                 |                 |           |        |          | 77       |           |              |          |           |                 |                |              |          |  | 127        |             |                       |              |  |                 | $\Box$   |   |          |
| 28    |           | 4          | 4          | <b> </b>     | <u> </u> | Ш               | $\Box$          |           |        |          | 78       | Ш         |              |          |           | Ш               |                | _            |          |  | 128        |             |                       |              |  |                 | $\Box$   |   |          |
| 29    |           | $\dashv$   |            | ₽            | ▙        | <u> </u>        |                 |           |        |          | 79       | Ш         | $\downarrow$ | $\bot$   | _         | Ш               | _ _            | _            |          |  | 129        |             | 1                     | L            | L.   | Ш               | _        |   |          |
| 30    |           | -          | _          | ┼            | ╀        | -               | -               | -         | -      |          | 80       |           | 4            | +-       | ╄         |                 |                | ┼            |          |  | 130        |             | ┼                     | <u> </u>     | <u> </u>   | Ш               | $\dashv$ |   | _        |
| 32    |           | $\dashv$   | +          | ╁            | ╁        |                 | $\dashv$        | +         | -      |          | 81<br>82 | $\vdash$  | -            | ╬        | ┿         | $\vdash$        | -              | ╄            | ł::::    |  | 131        |             | ╁┈                    | -            | <u> </u>   | $\vdash$        | $\dashv$ |   | _        |
| 33    |           | 7          | +          | +            | ╁        | $\vdash$        | $\dashv$        | +         | -      |          | 83       | $\dashv$  | +            | ╁        | +         | Н               |                | ╁            | 1        |  | 132<br>133 | -           | ╂                     | ├            | <del>                                     </del> | $\dashv$        |          | +   | _        |
| 34    |           | 7          |            | +            | 1        | Н               |                 | +-        | 1      | -        | 84       | $\dashv$  | $\dashv$     | ╁        | ╁         | Н               | +              | ╁╌           | ł        |  | 134        | -           | ╁╌                    | ╆            | H  | -1              | $\dashv$ | $\dashv$  | -        |
| 35    | 5         | 7          | $\top$     | †            |          | $\vdash$        | $\dashv$        | $\dashv$  | 1      | -        | 85       | H         | $\dashv$     | +        | +         | $\vdash$        | <del></del>    | $\dagger$    |          | -  | 135        | -           | $\dagger -$           | $\vdash$     |  |                 | $\dashv$ | +   | -        |
| 36    | 5         |            |            |              |          |                 |                 |           |        |          | 86       |           | 丁            | T        |           |                 | $\neg$         | T            |          |  | 136        |             | † =                   | T            | ·  | $\Box$          | $\dashv$ | +   | _        |
| 37    |           | J          |            | Ŀ            |          |                 |                 |           |        |          | 87       |           |              | I        |           |                 |                |              | ]        |  | 137        |             |                       |              |  |                 |          | 丁   | _        |
| 38    |           | _          | $\bot$     | 1            | _        | Ш               | $\Box$          |           | 1      |          | 88       | $\Box$    | $\perp$      | L        | ļ         |                 |                |              | ]        |  | 138        |             |                       |              |  |                 |          |   |          |
| 39    |           | 4          |            | ↓_           | ــــ     | Ш               | $\sqcup$        |           |        |          | 89       | Щ         | $\perp$      | 4        | 1         | Щ               | $\perp$        | 1_           |          |  | 139        |             | L                     | <u> </u>     |  |                 | $\Box$   | $\bot$  |          |
| 40    |           | $\dashv$   | +          | ╀            | ╀        | $\vdash \vdash$ | $\vdash \vdash$ | +         |        |          | 90       | Н         | +            | +        | +         | $\vdash \vdash$ |                | $\vdash$     |          |  | 140        |             | ↓                     | <u> </u>     | <u> </u>   | $\sqcup$        | _        | $\dashv$  | _        |
| 41    |           | +          | +          | +            | ├-       | Н               | $\dashv$        | +         |        |          | 91<br>92 |           | +            | +        | ┼-        | $\vdash$        | +              | +-           |          |  | 141        |             | ╀-                    | <del> </del> | $\vdash$   | $\vdash$        | 4        | +   | 4        |
| 43    |           | $\dashv$   | $\dashv$   | +-           | $\vdash$ | $\vdash$        | $\dashv$        | +-        | liiil  |          | 93       | $\vdash$  | $\dashv$     | ╄        | ┼         | ┝┥              | +              | +            |          |  | 142<br>143 |             | +-                    | $\vdash$     | H  | $\vdash$        | $\dashv$ | +   | 4        |
| 44    |           | +          | +          | †            | t –      | $\vdash$        | $\dashv$        | +         | 1      |          | 94       | -         | +            | +        | +-        | $\vdash \vdash$ | +-             | +            | liiil    | -  | 144        | +           | +                     | $\vdash$     | $\vdash$   | $\vdash \vdash$ | $\dashv$ | +   | ᅥ        |
| 45    |           | 1          | $\top$     | $t^-$        |          | H               | $\dashv$        | $\top$    | 1      |          | 95       | $\vdash$  | +            | +        | $\dagger$ | $\vdash$        |                | +-           |          |  | 145        | +-          | +-                    | <u> </u>     | $\vdash$   | $\vdash$        | $\dashv$ | +   | ᅥ        |
| 46    | ;         | _†         |            | İ            | Г        |                 |                 | 十         |        |          | 96       | $\dashv$  | $\top$       | $\top$   |           | $\vdash$        | $\dashv$       | T            |          |  | 146        | +           | T                     |              | -  | $\vdash$        | $\dashv$ | +   | -        |
| 47    |           | Ī          |            |              |          |                 |                 |           | ]!!!!  |          | 97       |           | $\Box$       |          | $\Box$    |                 |                |              | 1::::    |  | 147        | _           | 1                     |              |  | $\dashv$        | 寸        | 十   | ٦        |
| 48    |           | J          |            |              |          | П               | $\Box$          |           |        |          | 98       |           | $\Box$       | $\Gamma$ |           |                 |                |              |          |  | 148        | 工           |                       |              |  |                 | ゴ        | 丁   |          |
| 49    | 1         | 4          |            | ـ            | <u> </u> | $\sqcup$        | 4               |           |        |          | 99       |           | $\perp$      |          |           |                 |                |              |          |  | 149        |             |                       |              |  |                 |          | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ |          |
| 50    | Ш         |            |            | <u></u>      | <u></u>  | Щ               |                 |           | Jiiiil |          | 100      | $\perp$   |              |          |           |                 | L_             |              | J:::::   |  | 150        |             |                       | $oxed{oxed}$ |  |                 | $\perp$  |   |          |